

KINGSTON ASH RECOVERY PROJECT

MONTHLY REPORT

October 2012

Aerial Image of Kingston Ash Slide (09/27/2012)



0 1,000 2,000 3,000 4,000
Feet

Date of Imagery: 09/27/2012

Filename: ImageOnly_20120927_8x11

Tennessee Valley Authority
Realty, GIS & Land Records

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SAFETY

- Twelve (12) individuals attended site-specific health, safety and environment (HSE) orientations during October 2012 – 2,285 project-to-date. Zero site-specific refresher courses were conducted during the month of October 2012 - 435 project-to-date.
- Three hundred, seventy (370) safety observation reports (SORs) were submitted during October 2012 – 3,459 year-to-date; 3,459 are closed.

INFRASTRUCTURE / ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Continued borrow excavation.

ASH SLURRY AND POND TOTAL SUSPENDED SOLIDS (TSS) CONTROL

- Daily total suspended solids (TSS) sampling and pH monitoring were performed throughout the ash slurry system. The TSS of the main ash pond effluent TSS averaged 33.3 mg/L and the stilling pond effluent averaged 11.7 mg/L for October 2012.
- The ash pond effluent polymer addition (Agri-Drain location) rates were adjusted based on TSS levels during October 2012. Ascorbic acid was applied to control pH in the stilling pond.
- The plant began October 2012 off-line and ended the month operating 8 units.

PLANT ASH STORAGE / INTERIM ASH STORAGE AREA (BALLFIELD)

- Trans Ash placed and compacted dry fly ash during the month. Geosyntec provided quality control and assurance during October 2012.
- The Kingston Fossil Plant (KIF) plant operated from 0 to 8 units during the month, average of 3.3.

CENOSPHERE CONTROL ACTIVITIES

- Daily pond inspections were performed for all ponds. Skimmer pumping from near outlet to cenosphere collection zones was carried out.
- Collection of cenospheres by hydro-vacuum truck was carried out during 6 days in October 2012 with 28 loads collected by G&A Environmental.

ROUTINE MONITORING

Surface Water Sampling

- Continued reduced scope routine surface water monitoring. All monthly stilling pond results received to date have shown compliance with the outfall National Pollutant Discharge Elimination System (NPDES) permit.
- There were rainfall events on October 2 and 8, 2012 that triggered storm flow sampling in Swan Pond Embayment.
- Automated monitoring stations (Hydrolabs) are online continuously monitoring surface water conditions at five locations in the settling basin, clean water ditch, ash pond Agri-Drains, and stilling pond. Continued daily TSS monitoring at the sluice trench, ash pond Agri-Drains and stilling pond.

Air Sampling

- Air monitoring results for October 23 and 24, 2012 from the PM2.5 TVA air samplers exceeded the current ambient air monitoring plan (AAMP) action levels. The exceedances were investigated and determined to be unrelated to site activities.

Data Management

- Provided monthly surface water and air monitoring results to the EPA.

Non-Routine Sampling

- Continued sample collection and on-site moisture testing in support of dredge cell and ballfield operations.
- Continued confirmation sampling support for middle embayment ash removal.
- Continue spoils runoff sampling from the two tanks of spoils material associated with the perimeter wall project.
- Initiated fall fish bioaccumulation sample collection.

DREDGE CELL

- TVA SCS continued drying materials in the dredge cell and hauling dry materials to the active ash stacking.
- Began excavation of relic materials and stacking in the dredge cell around the perimeter "infill".
- Placed the storm drain pipe and manhole at the J-Road; therefore, completing the Segment 2 platform where it ties into Segment 1 at Dike D.
- Completed placing the phase 1 rock buttress at Segments 1 and 8.
- Geo-Con continued predrilling / jet grouting for repairs in Segment 7. GeoCon also completed the jet grouting of buttress wall 8-32 following previous jet grouting attempt.
- Stantec completed geotechnical borings and slope inclinometers in the southwestern corner of the relic area.

LATERAL EXPANSION

- Geo-Con continued PWS construction with both rigs operating in Segment 2. Slag shipments from LaFarge (Chicago) were impacted by closure of a lock on the Cumberland River; hauling slag by truck avoided any impact on trench production.
- TVA SCS continued construction of the working platform for Segment 3 using dried spoils materials from the relic and began construction of the working platform for Segment 4.
- Stacking continued in the ash pond and lateral expansion.

RIVER ENGINEERING EVALUATION / COST ANALYSIS (EE/CA) AND BASELINE ECOLOGICAL RISK ASSESSMENT (BERA)

- The public comment period ended on October 10, 2012 for the River EE/CA (including BHHRA and BERA). TVA prepared responses to public comments, and issued the draft action memorandum for the river system for EPA and TDEC review. TVA then revised and submitted the final action memorandum to EPA for approval.

EMBAYMENT RESTORATION AND RECREATION AREA DEVELOPMENT

- Lakeshore Phase 1 bidder evaluation continued. Two contractors provided bids.
- 100% embayment ecosystem restoration design package was completed and sent to regulators for approval.

MIDDLE EMBAYMENT

- Ash removal from the middle embayment was performed during the month.
- Weekly middle embayment status reports were submitted.
- The clean haul road from the underpass along the clean water ditch, along Swan Pond road to the top of Segment 8 was completed.
- A new “dirty” haul road was constructed from the underpass to the Segment 1 buttress toe road to allow removal of the old haul road and underlying ash.
- A berm was installed in the west portion of the middle embayment to provide isolation from storm runoff draining the ash containment structure.

COMMUNICATIONS

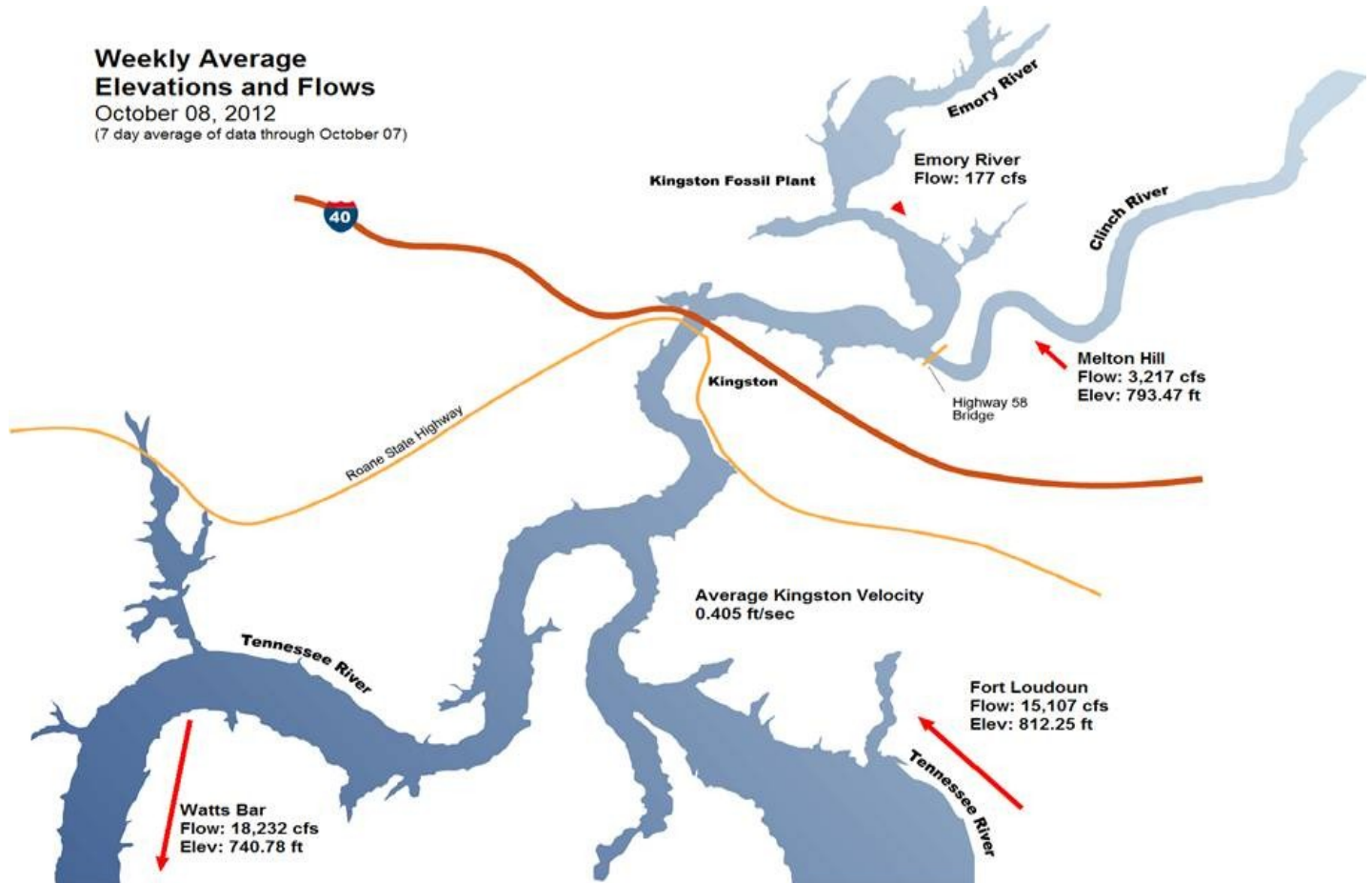
- Added weekly area resident updates to Kingston Ash Recovery website.
- Sent weekly updates to the Community Advisory Group (CAG), public officials and members of the public who have signed up to receive weekly emails.
- Updated administrative record with work plans and relevant documents.
- Continued to respond to calls from residents.
- Updated site bulletin boards.
- Utilizing input from the CAG produced a full-page newspaper ad featuring comparison photos showing the progress on site that ran in October 2012.
- Worked on Public Meeting to discuss the upcoming River System Action Memorandum.

RIVER OPERATIONS

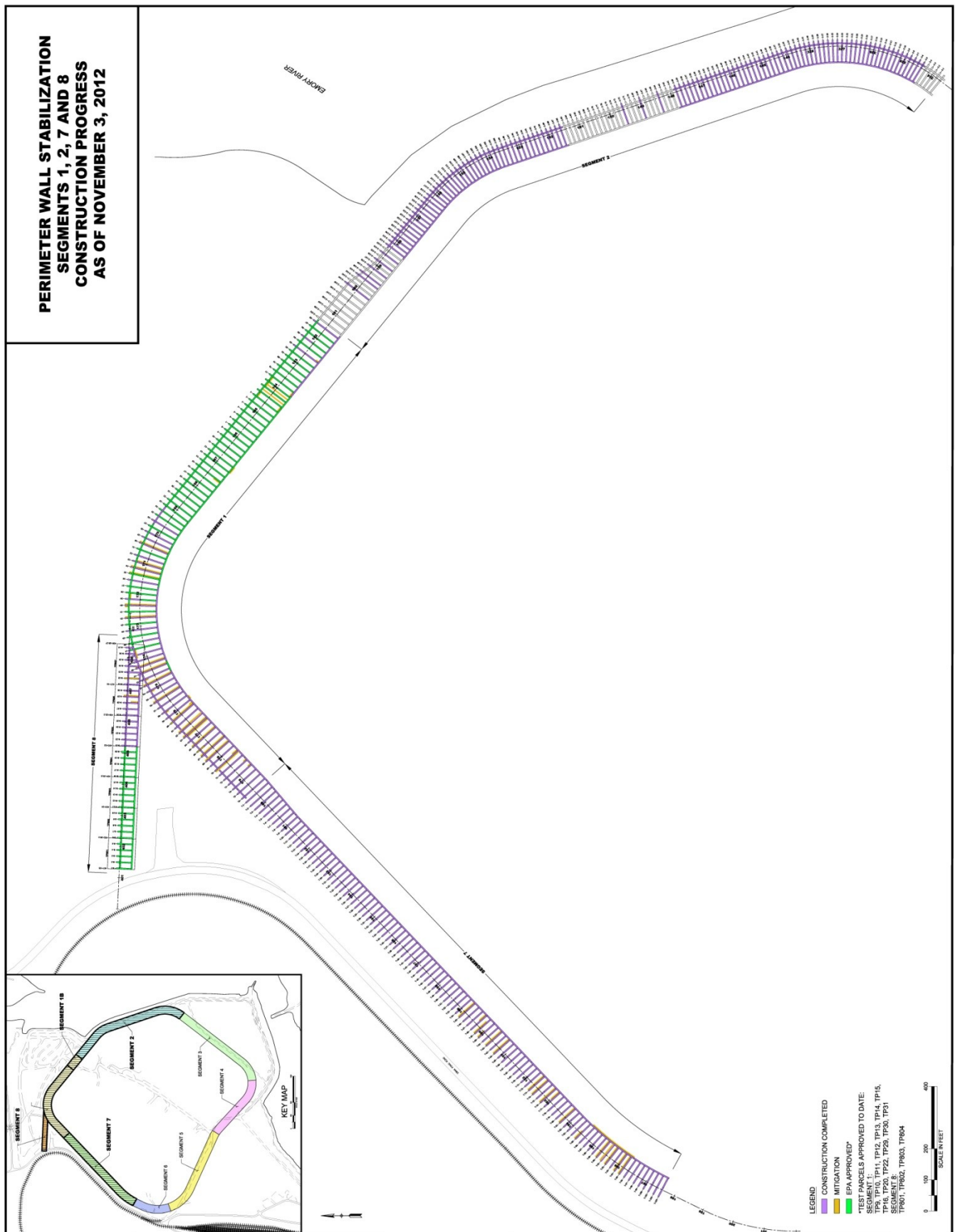
Weekly Average Elevations and Flows

October 08, 2012

(7 day average of data through October 07)



**PERIMETER WALL STABILIZATION
SEGMENTS 1, 2, 7 AND 8
CONSTRUCTION PROGRESS
AS OF NOVEMBER 3, 2012**

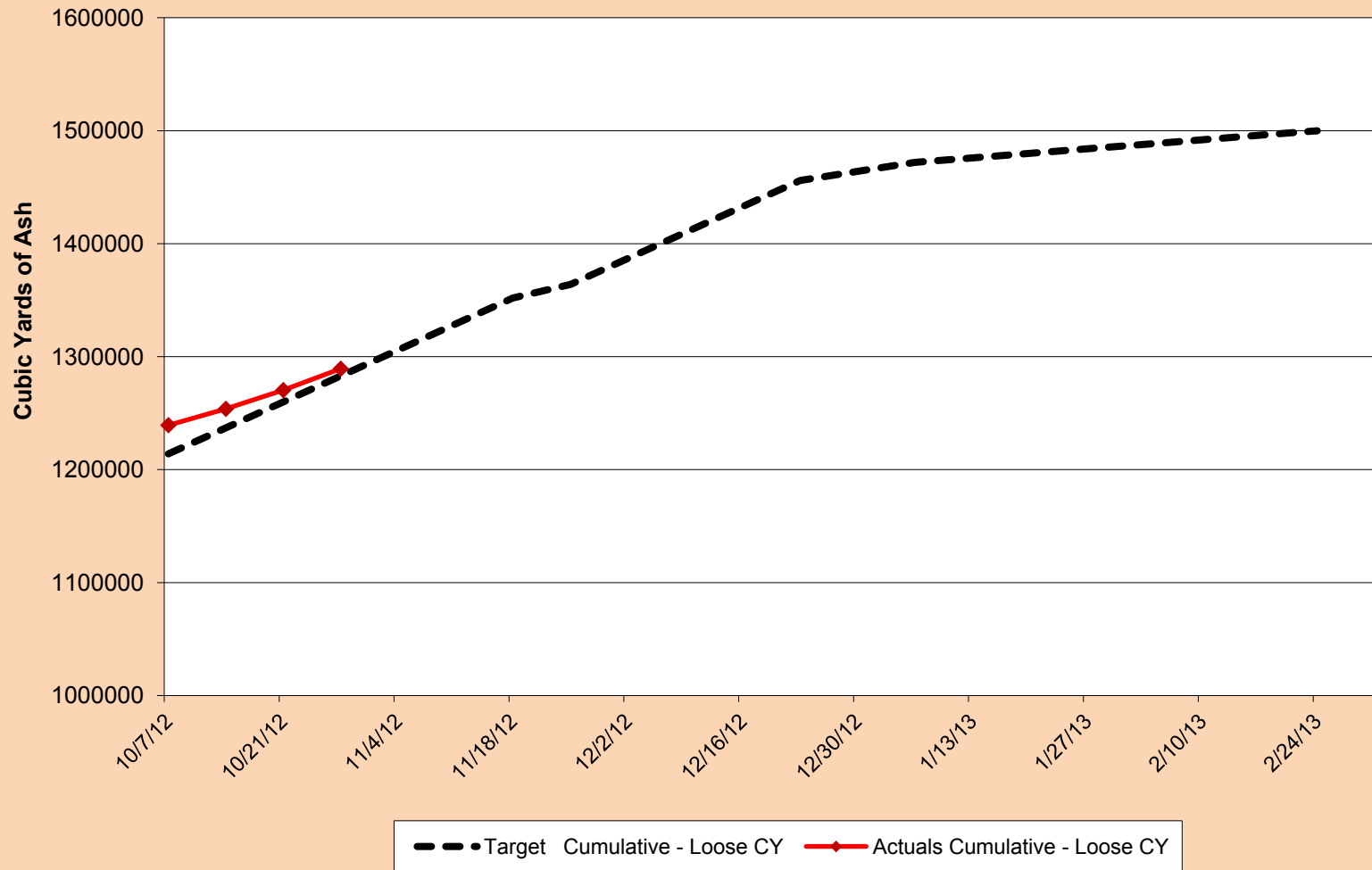


Kingston Ash Recovery Project			October 2012		Field Report
Safety			Monthly Total	FY – Cumulative Total	
Near Misses			0	0	
First Aid Incidents			2	2	
Recordable Incidents			0	0	
Recordable Lost Time Incidents			0	0	
Environmental	Matrix	Samples	Analyses	Results	
Organization - TVA	Surface / Utility Water	5,726	48,355	262,688	
Organization - TVA	Groundwater (Spring & Well)	259	2,706	15,862	
Organization - TVA	Ash	764	1,341	9,981	
Organization - TVA	Soil / Sediment	1,190	2,309	17,507	
Organization - TVA	Biota	5,185	12,514	136,240	

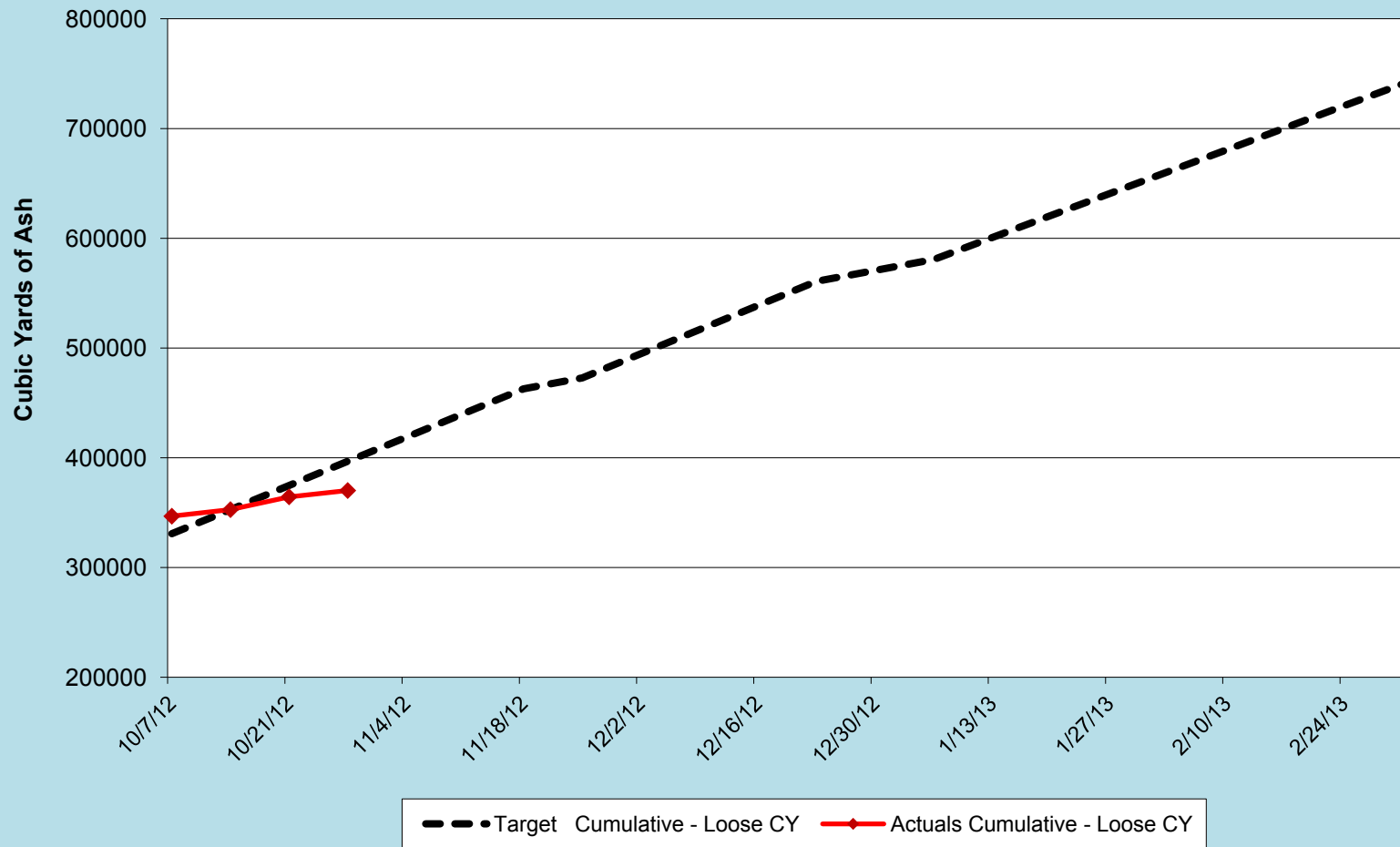
Work Description	Period Work Performed (CYIP)	PTD Work Performed (CYIP)
Ash Removal / Excavation		
Total Removed from Middle Embayment	59,142	932,857
Total Removed from North Embayment	-	1,010,322
Total Removed from Settling Basins / Dike 2	1,025	31,609
Excavated Total	60,167	1,974,788
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Placement		
Total Placed in Dredge Cell	26,525	1,249,382
Total Placed in Lateral Expansion	8,722	583,367
Total Placed in Ash Pond	32,795	394,268
Placed Total	68,043	2,227,016
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Storage Handling		
Total Removed from Lateral Expansion	2,184	51,473
Total Removed from Dredge Cell	67,658	613,411
Total Removed from Ballfield	6,551	449,924
Removed from Storage Total	76,393	1,191,202
Net Removed to(from) Ballfield Storage	370	(132,566)

For period ending October 31, 2012.

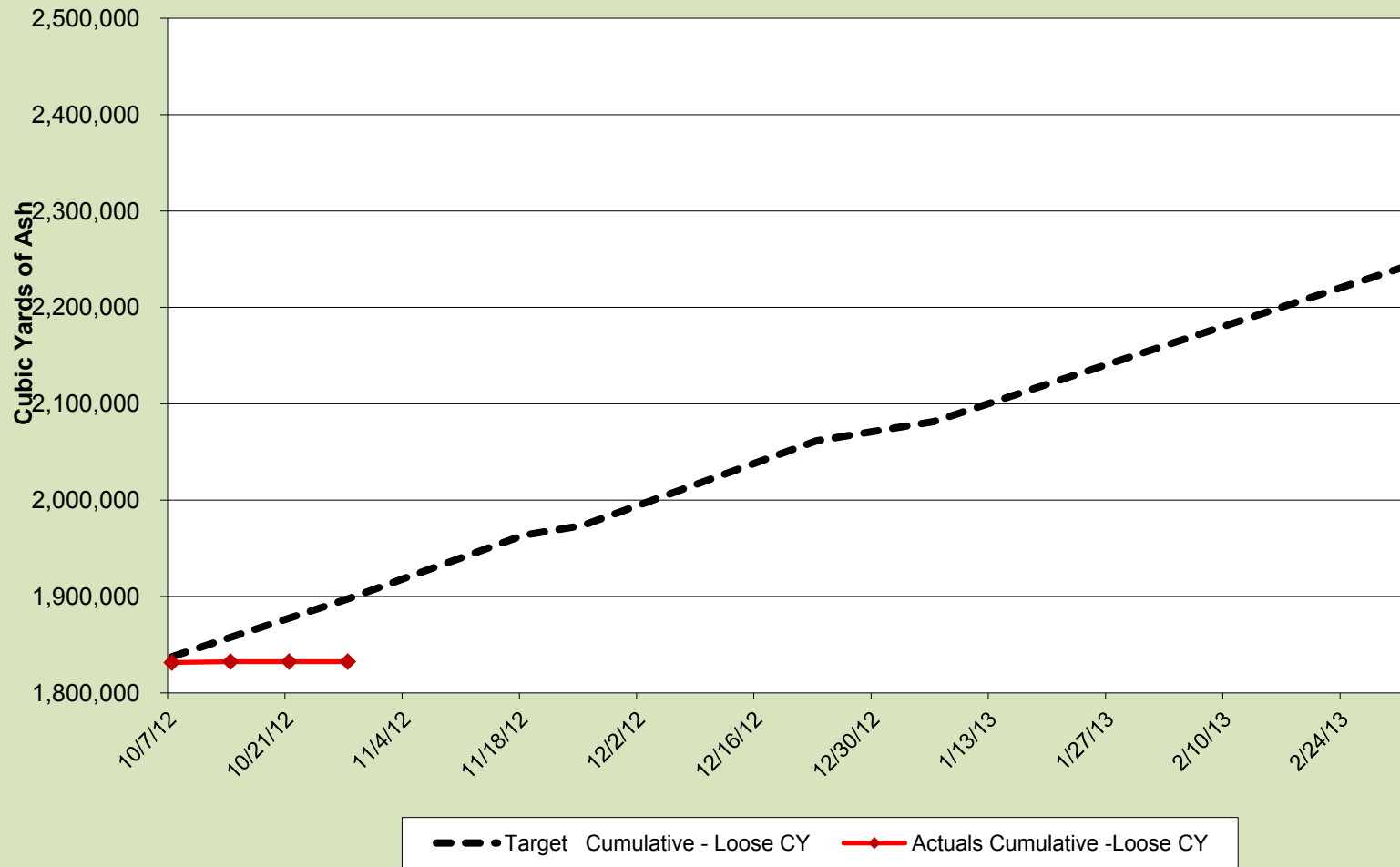
Ash Excavation from Middle Embayment Weekly as of November 4, 2012



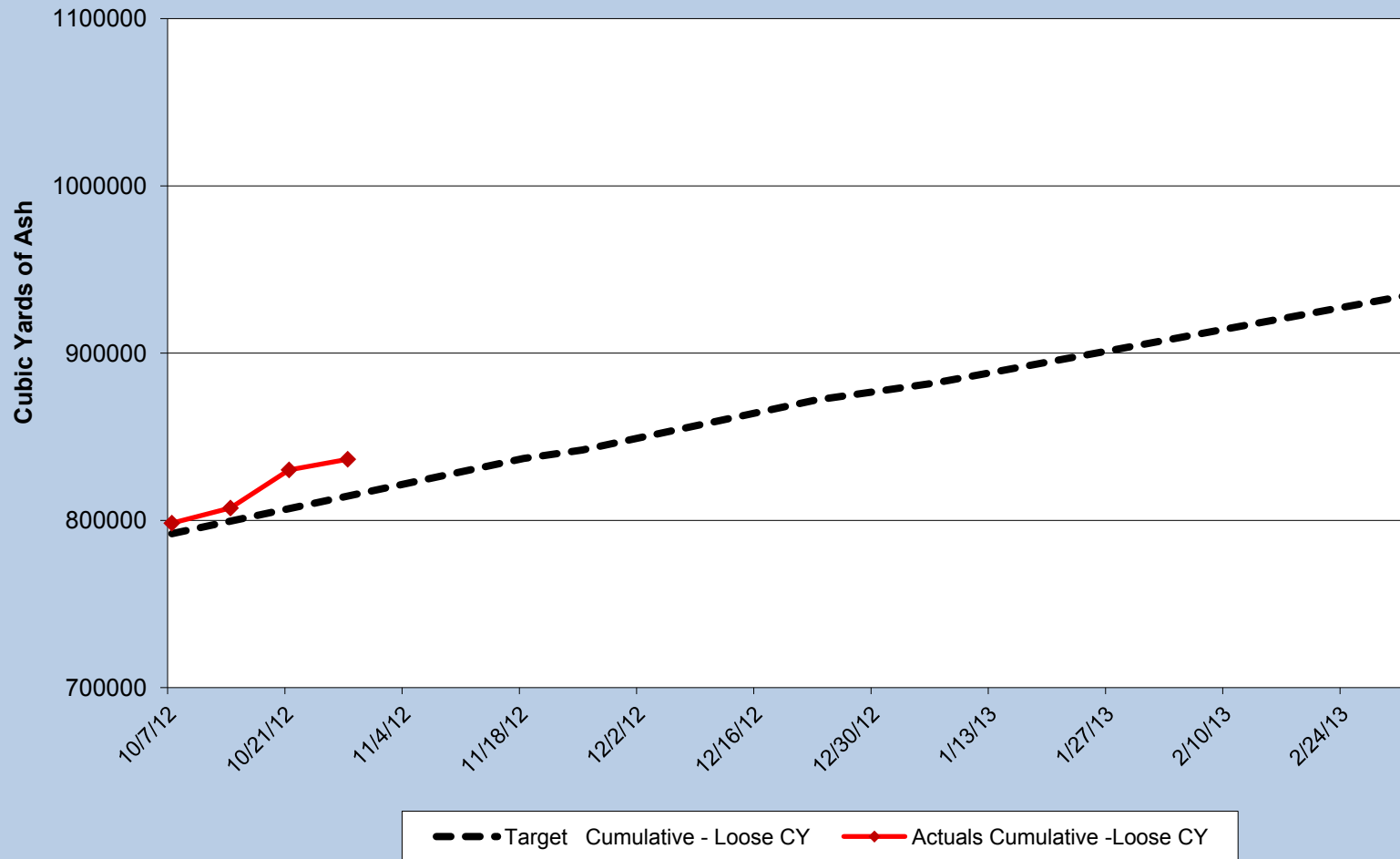
**Ash Excavation from Dredge Cell Relic
Weekly as of November 4, 2012**



Ash Stacking in Dredge Cell Weeklyas of November 4, 2012



**Ash Stacking in Lateral Expansion
Weekly as of November 4, 2012**



**Perimeter Wall Stabilization Segment 1,8,7 & 2
Weekly as of November 4, 2012**

